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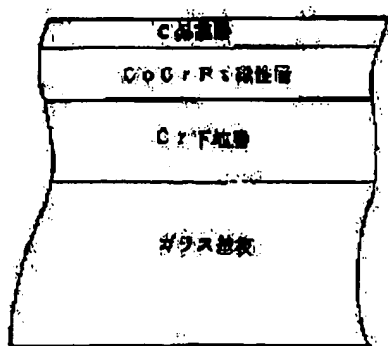
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(54) MAGNETIC RECORDING MEDIUM AND ITS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To produce a magnetic recording medium having high coercive force and generating low noise.

SOLUTION: An underlayer, a CoCrPt magnetic layer and a protective layer are successively formed on a nonmagnetic substrate to obtain the objective magnetic recording medium. The magnetic layer contains 5.0-16.5at.% oxygen in a dispersed state. At the time of forming the magnetic layer by sputtering, a gaseous oxygen-argon mixture is used as sputtering gas and 5.0-16.5at.% oxygen is incorporated into the magnetic layer by regulating the mixing ratio of oxygen. The C-N ratio of the resultant magnetic recording medium is remarkably increased. A resin



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substrate may be used as the nonmagnetic substrate.

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